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(54) PREPARATION OF SPHERICAL CALCIUM CARBONATE

(57) Abstract:

PURPOSE: To prepare spherical calcium carbonate stable even in the presence of water, and suitable as an abrasive for toothpaste, by coating calcium carbonate having spherical vaterite structure with cellulose acetate phthalate.

CONSTITUTION: Cellulose acetate phthalate is dissolved in a solvent such as methyl ethyl ketone, acetone, methyl acetate, etc. in concentration of about

3W/25 wt%. Spherical vaterite-type calcium carbonate is sprayed with or immersed in the solution obtained above and the solvent is evaporated by drying. By this process, the objective spherical vaterite-type calcium carbonate coated with cellulose acetate phthalate can be obtained. When the coated calcium carbonate is used e.g. as an abrasive of toothpaste, it keeps the spherical shape stably for a long period even in the presence of water, and since it is spherical, it exhibits mild abrasive action and gives excellent feeling to the mouth.

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